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Internetworking products

Ethernet Stackable Hubs and Unmanaged Ethernet Fixed Port Repeaters

One year

Lifetime*

(One Year if not registered)

*Power supply and fans in these stackable hubs and unmanaged repeaters

Other hardware products

One Year

Spare parts and spares kits 90 days

One year

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LinkBuilder

How To Install And Use The Coaxial Transceiver Module

3C12066

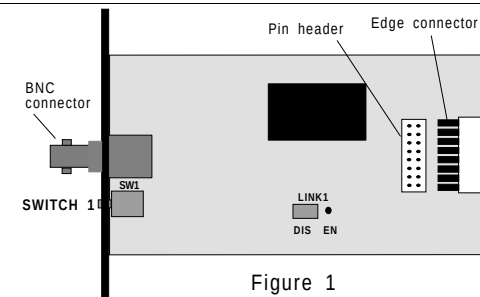


Figure 1

This manual details the installation and use of the 3Com Coaxial Transceiver Module, 3C12066. Please retain this manual with your other 3Com manuals for future use.

1 Interworking Information

The 3Com® LinkBuilder® Coaxial Transceiver Module has been designed to the IEEE 802.3 specification.

The Transceiver Module can transmit and receive Ethernet 10 Mbit/sec traffic over thin Ethernet cable. The Transceiver Module features switchable internal/external coaxial termination, Jabber protection and selectable SQE Test.

The Transceiver Module is used to provide an extra port or connectivity to thin Ethernet on the following LinkBuilder products:

- ECS modules (3C12076, 3C12050 / 1)
- MSH modules (3C18110, 3C18120, 3C18124 and 3C18146)
- FMS Stackable Hubs (3C16250, 3C16265, 3C16271 and 3C16371)
- FMS II Stackable Hubs (3C16670 and 3C16671)

Repeaters (3C16170, 3C16200, 3C16210 and 3C16505)

This product has the benefit of a "lifetime warranty", details of which are given on page 4 of this manual.

2 Setting up the Module

Segment Termination

The thin Ethernet cable may be connected to the Transceiver Module in one of two ways – externally terminated or internally terminated.

External termination uses a T-piece adapter, with terminator fitted, between the cable and the module. An in-line terminated adapter may be used if you prefer. Move SWITCH 1 (Figure 2) to the 'EXT' position.

With internal termination, the cable is connected directly to the BNC socket, and the termination selector (SWITCH 1 in Figure 2) moved to the 'INT' position.

Access to the slide switch is through a slot in the metal mounting panel of the Transceiver Module, where the positions are labelled.



Figure 2

The modules are shipped with SWITCH 1 set for internal termination. Ensure that SWITCH 1 is selecting the termination mode you require.

SQE Test

The SQE Test function should be enabled or disabled depending on the application. The function *must* be disabled for operation when installed in a Repeater. The function should be enabled for operation when connected to a LinkBuilder ECS Local Bridge Module 3C12050/1.

SQE Test is disabled when the jumper plug of LINK1 (Figure 1) occupies the DIS position. The Transceiver Module is supplied with SQE Test disabled.

Check that LINK1 is in the required position, and move if necessary.

3 Installation



Only qualified personnel should install this device. Observe normal anti-static precautions! Use an earthed wrist-band!

A 16-pin header and a 16-way edge connector are mounted on the Transceiver Module for connection to a Module, Stackable Hub or Repeater.

Connection of the Transceiver Module to a thin Ethernet segment is through the BNC connector on the front panel of the Transceiver Module.

Before you install the Transceiver Module, you must remove the mother device from the network and all power sources. Modules must be removed from the Chassis (you do not need to power down the chassis first). The 3C18146 Expansion Module must be separated from its mother module. See the relevant 'How to Install and Use...' manual.

Remove the blanking plate from the unit in which you are going to install the Transceiver Module. The relevant manual will tell you where to find the plate.

Keep the blanking plate in a safe place so that it can be replaced if the Transceiver Module is removed in future.

Installing on a Stackable Hub or Repeater

For FMS Stackables and Repeaters, hold the mounting panel with the pin header side of the board down.

For FMS II Stackables, hold the mounting panel with the pin header side of the board up.

Insert the edge connector end of the Transceiver Module into the rear of the mother device.

Slide the Transceiver Module in carefully to engage in the slot and push it fully home.

Fix the mounting panel of the Transceiver Module to the back panel using the two screws from the blanking plate.

Installing on an ECS or MSH Module

Position the Module on a flat surface with the 16-way socket facing up. Hold the Transceiver Module by the mounting panel and board edge with the header pins facing down. Pass the board of the Transceiver Module through the cut-out in the front panel. Align the socket on the card with the pins on the Transceiver Module and push down firmly to connect.

With the 3C18146 Expansion Module, you align the header and pins and press gently to engage the pins. Turn the pair over to rest on the Transceiver Module and press firmly close to the header to complete connection.

Fix the mounting panel of the Transceiver Module to the module using the two screws from the blanking plate.

Connection

Before proceeding with the installation of the module, check that the host equipment is set up to take the module. See the relevant 'How to Install and Use...' manual.

Re-install the mother device into its chassis and /or network.

Connect the Transceiver Module to the thin Ethernet segment using the chosen method. If you change your mind about the method of termination, you may reset the switch to the appropriate position without removing power from the Transceiver Module.

4 Operation

The Transceiver Module will operate correctly once power is applied to its host equipment.

5 Problems

If, after installing the Transceiver Module, no communication is possible, check the settings of the host unit and that it is receiving power. Also, check the positions of the switch and link on the module. Ensure correct terminations are present. If no error is found, refer to the supplier of your 3Com Coaxial Transceiver Module for further advice.

Standards

The 3Com Coaxial Transceiver Module 3C12066 has been designed to comply with the following standards:

Functional:	PLS & AUI Specification ISO 8802.3 Sect. 7 & 10
Safety:	UL 478, EN 60950, CSA 22.2
R.F.I.	FCC 20780 (Class A) EN55022 (Level A)

Radio Frequency Interference Statement

This equipment has been tested with a class A computing device and has been found to comply with part 15 of FCC Rules. Operation in a residential area may cause unacceptable interference to radio and TV receptions requiring the operator to take whatever steps are necessary to correct the interference.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur : "Appareils Numériques", NMB-003 édictée par le ministre des Communications.

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